

DT05 Rec'd PCT/PTO 01 OCT 2004

SEQUENCE LISTING

<110> Patel, Sonal

<120> SC6 FOR DIAGNOSIS OF HYPOXIA RELATED CONDITIONS

<130> 2543-1-036PCT/US

<140> PCT/GB2003/001443

<141> 2003-04-02

<150> GB 0207533.1

<151> 2002-04-02

<160> 4

<170> PatentIn version 3.1

<210> 1

<211> 619

<212> PRT

<213> Homo Sapiens

<400> 1

Met	Ala	Thr	Lys	Glu	Lys	Leu	Gln	Cys	Leu	Lys	Asp	Phe	His	Lys	Asp
1				5					10					15	

Met	Val	Lys	Pro	Ser	Pro	Gly	Lys	Ser	Pro	Gly	Thr	Arg	Pro	Glu	Asp
			20					25						30	

Glu	Ala	Glu	Gly	Lys	Pro	Pro	Gln	Arg	Glu	Lys	Trp	Ser	Ser	Lys	Ile
		35					40					45			

Asp	Phe	Val	Leu	Ser	Val	Ala	Gly	Gly	Phe	Val	Gly	Leu	Gly	Asn	Val
	50					55					60				

Trp	Arg	Phe	Pro	Tyr	Leu	Cys	Tyr	Lys	Asn	Gly	Gly	Gly	Ala	Phe	Leu
65					70					75					80

Ile	Pro	Tyr	Phe	Ile	Phe	Leu	Phe	Gly	Ser	Gly	Leu	Pro	Val	Phe	Phe
				85					90					95	

Leu Glu Ile Ile Ile Gly Gln Tyr Thr Ser Glu Gly Gly Ile Thr Cys
100 105 110

Trp Glu Lys Ile Cys Pro Leu Phe Ser Gly Ile Gly Tyr Ala Ser Val
115 120 125

Val Ile Val Ser Leu Leu Asn Val Tyr Tyr Ile Val Ile Leu Ala Trp
130 135 140

Ala Thr Tyr Tyr Leu Phe Gln Ser Phe Gln Lys Glu Leu Pro Trp Ala
145 150 155 160

His Cys Asn His Ser Trp Asn Thr Pro His Cys Met Glu Asp Thr Met
165 170 175

Arg Lys Asn Lys Ser Val Trp Ile Thr Ile Ser Ser Thr Asn Phe Thr
180 185 190

Ser Pro Val Ile Glu Phe Trp Glu Arg Asn Val Leu Ser Leu Ser Pro
195 200 205

Gly Ile Asp His Pro Gly Ser Leu Lys Trp Asp Leu Ala Leu Cys Leu
210 215 220

Leu Leu Val Trp Leu Val Cys Phe Phe Cys Ile Cys Lys Gly Val Arg
225 230 235 240

Ser Thr Gly Lys Val Val Tyr Phe Thr Ala Thr Phe Pro Phe Ala Met
245 250 255

Leu Leu Val Leu Leu Val Arg Gly Leu Thr Leu Pro Gly Ala Gly Arg
260 265 270

Gly Ile Lys Phe Tyr Leu Tyr Pro Asp Ile Thr Arg Leu Glu Asp Pro
275 280 285

Gln Val Trp Ile Asp Ala Gly Thr Gln Ile Phe Phe Ser Tyr Ala Ile
290 295 300

Cys Leu Gly Ala Met Thr Ser Leu Gly Ser Tyr Asn Lys Tyr Lys Tyr
305 310 315 320

Asn Ser Tyr Arg Asp Cys Met Leu Leu Gly Cys Leu Asn Ser Gly Thr
325 330 335

Ser Phe Val Ser Gly Phe Ala Ile Phe Ser Ile Leu Gly Phe Met Ala
340 345 350

Gln Glu Gln Gly Val Asp Ile Ala Asp Val Ala Glu Ser Gly Pro Gly
355 360 365

Leu Ala Phe Ile Ala Tyr Pro Lys Ala Val Thr Met Met Pro Leu Pro
370 375 380

Thr Phe Trp Ser Ile Leu Phe Phe Ile Met Leu Leu Leu Leu Gly Leu
385 390 395 400

Asp Ser Gln Phe Val Glu Val Glu Gly Gln Ile Thr Ser Leu Val Asp
405 410 415

Leu Tyr Pro Ser Phe Leu Arg Lys Gly Tyr Arg Arg Glu Ile Phe Ile
420 425 430

Ala Phe Val Cys Ser Ile Ser Tyr Leu Leu Gly Leu Thr Met Val Thr
435 440 445

Glu Gly Gly Met Tyr Val Phe Gln Leu Phe Asp Tyr Tyr Ala Ala Ser
450 455 460

Gly Val Cys Leu Leu Trp Val Ala Phe Phe Glu Cys Phe Val Ile Ala
465 470 475 480

Trp Ile Tyr Gly Gly Asp Asn Leu Tyr Asp Gly Ile Glu Asp Met Ile
485 490 495

Gly Tyr Arg Pro Gly Pro Trp Met Lys Tyr Ser Trp Val Ile Thr Pro
500 505 510

Val Leu Cys Val Gly Cys Phe Ile Phe Ser Leu Val Lys Tyr Val Pro
515 520 525

Leu Thr Tyr Asn Lys Thr Tyr Val Ser Pro Thr Trp Ala Ile Gly Leu
530 535 540

Gly Trp Ser Leu Ala Leu Ser Ser Met Leu Cys Val Pro Leu Val Ile
545 550 555 560

Val Ile Arg Leu Cys Gln Thr Glu Gly Pro Phe Leu Val Arg Val Lys
565 570 575

Tyr Leu Leu Thr Pro Arg Glu Pro Asn Arg Trp Ala Val Glu Arg Glu
580 585 590

Gly Ala Thr Pro Tyr Asn Ser Arg Thr Val Met Asn Gly Ala Leu Val
595 600 605

Lys Pro Thr His Ile Ile Val Glu Thr Met Met
610 615

<210> 2

<211> 3969

<212> DNA

<213> Homo Sapiens

<400> 2

gaattccgaa agcaaggaga tggccaccaa ggagaagctg cagtgtctga aagatttcca
60

caaggacatg gtgaagccct caccagggaa gagcccaggc acgcggcctg aggacgaggc
120

tgagggaaaa cctccgcaga gggagaagtg gtctagcaag atcgactttg tgctctctgt
180

ggctggcggc ttcgtgggct tgggcaacgt ctggcgcttc ccgtacctct gctacaagaa
240

tggtggaggt gcgtttctca taccgtattt tattttcctg tttgggagcg gcctgcctgt
300

gtttttcttg gagatcatca taggccagta cacctctgaa gggggcatca cctgctggga
360

aaagatctgc cccttgttct ctggtatcgg ctatgcctcc gttgtaattg tgtccctcct
420

gaatgtctac tacatcgtca tcctggcctg ggccacatac tacctgttcc agtccttcca
480

gaaggagctg ccctgggcac actgcaacca cagctggaac acacctcact gcatggagga
540

caccatgcgc aagaacaaga gtgtctggat caccatcagc tccaccaact tcacctcccc
600

tgtcatcgag ttctgggagc gcaacgtgct gagcttgtcc cctggaatcg accacccagg
660

ctctctgaaa tgggacctcg ctctctgcct tcttttagtc tggctagtgt gtttcttctg
720

catctgcaag ggcgtcaggt ccaactgggaa ggtcgtctac ttcacagcca cttttccatt
780

cgccatgctc ctggtgctgc tgggccgagg gctgacgctg ccgggcgcgg gccgaggcat
840

caagttctat ctgtatcctg acatcacccg ccttgaggac ccacaggtgt ggattgacgc
900

tgggactcag atattcttct cttatgccat ctgcctgggg gctatgacct cgctggggag
960

ctacaacaag tacaagtata actcgtacag ggactgtatg ctgctgggat gcctgaacag
1020

tggtaccagt tttgtgtctg gcttcgcaat tttttccatc ctgggccttca tggcacaaga
1080

gcaaggggtg gacattgctg atgtggctga gtcaggtcct ggccctggcct tcattgccta
1140

cccaaaagct gtgacaatga tgccgctgcc cacatttttg tccattcttt tttttattat
1200

gcttctcttg cttggactgg atagccagtt tgttgaagtt gaaggacaga tcacatcctt
1260

ggttgatctt taccatcct tcctaaggaa gggttatcgt cgggaaatct tcatcgcctt
1320

cgtgtgtagc atcagctacc tgctggggct gacgatggcg acggagggcg gcatgtatgt
1380

gtttcagctc ttgactact atgcagctag cgggtgatgc cttttgtggg ttgcattctt
1440

tgaatgtttt gttattgcct ggatatatgg aggtgataac ctttatgatg gtattgagga
1500

catgattggc tatcgccccg ggccctggat gaagtacagc tgggtgatca ctccagttct
1560

ctgtgttgga tgtttcatct tctcgctcgt caagtacgta cccctgacct acaacaaaac
1620

atacgtgtcc ccaacttggg ccattgggct gggctggagc ctggcccttt cctccatgct
1680

ctgcgttccc ttgggtcatcg tcatccgcct ctgccagact gaggggcccgt tccttgtgag
1740

agtcaagtac ctgctgaccc caagggaacc caaccgctgg gctgtggagc gcgagggagc
1800

cacaccttac aactctcgca ccgtcatgaa cggcgctctc gtgaaaccga cccacatcat
1860

tgtggagacc atgatgtgag ctctctcggg tcgacggggc cggcggtttt cctgctgttt
1920

actaacatta gattcacata ggaccaggtt tacagagctt tatatttgca ctaggatttt
1980

tttttttttg taattgtcac agaaaatgta attgtgggta tgtgtgcgtg cgtgtgtgtg
2040

tgtgtgtgtg tgtatcgtgt gtgtgtgttt tgttttgatt tgggggatat tttgtacaaa
2100

aagaaaaccc acgggaagat gtccgtggag aggcagagct ttcatactga attagatgta
2160

ttttatggga atttggtaaa tttttctttg tatttttttt tttacatata agtatatata
2220

cacttagaga ttgtcatata cttttaccac ttgaattgat cttcttgcca gcaatagatc
2280

tcattttcaa aagcaattct tcggtgctgt gtagctggca gaaagttctg tccagtaaac
2340

gcaggatgga attttcctgg gactctacac ccatcttaag gtggtatacc ttccaaatcc
2400

tggttcagat ggaagaaata gcaggagaga ggaccatta gctggcagac ccaggggaag
2460

aaaggagggc tgtgaggaga tacctcatta aacttggctt agtgaagaag agagatgcca
2520

aaggaatgaa ccaacccttc acataaagga gactggctga agctgaatga ggaggcccta
2580

tagcagaagt ctgattctaa gagcagtaga aacttgtacc agaagcaaaa tcccactttt
2640

aattttgaga tggtgagtgg atagtcagta gaccgtcaga accactggcc agagagggag
2700

ctgctagaga tccaagaagg ctggcaggaa tgaggctcac aactcagcct cgcaagaggt
2760

ggcagaggca caggaggcca cagtccttcc tggggcattc caggcagaga aggagcagag
2820

gctctcccgg caggagctgg ggtctcaggg ctcagatgag tctgttgcatt ttgaatgggg
2880

tcatagcagg ttctggctcat tccccaagca acatctcagc atctcttaaa gttgcctgca
2940

ggaatgaagc atgacatacc tgttgaggga ctaggggagt ggtggggagg tgagtggacc
3000

aaaggatata ggccccaggc atgcagatgg gcccgggtgc ggggaggggt gctttctttc
3060

ctcatctccc cactccccac tctcagcctg ggagactcct gccaagccct cattaagat
3120

gccaccctgg gctgccttgg cacctagcaa ggcacaccaa gaacagcttt tgagtcgtat
3180

cctccactgg ggaagtgctc ccagttcaga acaagggcag cccgtgggtgc tgacctagga
3240

tataacaaag ctcttcactt caaaaccctt gcaatagctg ggtttacaga catttaccac
3300

ctggggaccc aaaagagaag gcctaggaga gttttctaga aggttgggat tgtcagggtc
3360

ctggccccc agaactggct tgatcaaggg ccttatgtgg agcagagggt gtctctgaac
3420

caggagagaa ggtactatac ctttcaaata cccagggcag acacaccccc acccagcccc
3480

tatttgacc taaactgtgc catttgaaca gtcacttcca agctcagtct aaatgaaacc
3540

gaaacgtgac cacgcacaaa ggcagtcact gctcgagggg tgcagaccgc agaattttca
3600

cagcaggggc tcttggaact ctggaaaccc ccttcttaaa tttgggagga ggagtatgcc
3660

tttgggtgcc ccctcccaag ggcaattctg aaccccatct ttggcaggca tacatatctc
3720

actgtttcca aagctatcta ctctgcaaaa caacacccag tcctattcca aactctcaac
3780

gattctatct tgttcctggt tttctatgta tttatgggtg ccgtttgtgt ctgatttgat
3840

tttactgttt tttccctgat tttatggagt agcattgtga cctgttttcc tttgtcttat
3900

ataactttag taaactaacc actgtcaatg attgagggca ggtggcacgt ggggaagagg
3960

gcggaattc
3969

<210> 3
<211> 22
<212> DNA
<213> Homo Sapiens

<400> 3
atcggctatg cctccgttgt aa
22

<210> 4
<211> 22
<212> DNA
<213> Homo Sapiens

<400> 4
agttggtgga gctgatggtg at
22